

AMENDMENT TO 920326MB  
INTERMART BCSTG OF NC. INC  
224A - 6 KW - 100 M HAAT  
HARRISBURG, NC  
June 1992

TECHNICAL STATEMENT

This amendment is being prepared on behalf of Intermart Broadcasting of North Carolina, Inc. ("Intermart"). On March 26, 1992, application was filed for Channel 224A at Harrisburg, North Carolina. This amendment simply seeks to change the power and height above average terrain of the original application. No change in the height of the supporting structure or site is being requested. Since many exhibits of the original application are still correct, those exhibits have not been resubmitted but are simply said to be "On File as 920326MB".

Items that have changed and are being resubmitted with this amendment are Exhibit #1, Vertical Plan Sketch; Exhibit #3A, Blanketing Contour Calculation; Exhibit #5, Service Contours; Exhibit #6, Radiofrequency Radiation Study and Statement; Area within the 1.0 mV/m contour and population.

We have tried to be as accurate as possible in the preparation of this report. Should there be any questions concerning the information contained herein, we welcome the opportunity to discuss the matter by phone (912) 638-5608.

OVERALL  
STRUCTURE  
149.05 m  
( 489.0 ft)  
AGL  
391.06 m  
(1283.0 ft)  
AMSL

148.13 m  
( 486.0 ft)  
AGL

There are numerous communications antennas located on the tower at various heights and powers. Although no interference to existing service is expected, Intermart Broadcasting of NC will use good engineering practice to eliminate any unexpected interference to the Commission's satisfaction. Due to the number of services located on the tower, individual call signs are not listed here but will be supplied if requested.

NEW FM FM Antenna  
← Center of Radiation  
67.33 m ( 220.9 ft) AGL  
309.34 m (1014.9 ft) AMSL  
99.97 m ( 328.0 ft) HAAT

North Latitude 35-16-20  
West Longitude 80-45-54

Site Elev 242.01 m ( 794.0 ft) AMSL  
Terrain Avg 209.37 m ( 686.9 ft) AMSL

(Sketch not drawn to scale)

#### VERTICAL PLAN SKETCH

SITE ELEVATION - 242 m ( 794 ft) AMSL  
TOP OF STRUCTURE - 149 m ( 489 ft) AGL  
391 m (1283 ft) AMSL  
FM Antenna COR - 67 m ( 221 ft) AGL  
309 m (1015 ft) AMSL  
100 m ( 328 ft) HAAT

FIGURES ROUNDED TO NEAREST METER (FOOT).

#### EXHIBIT #1

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**BROMO**  
**COMMUNICATIONS**

St Simons Island, Georgia

BROADCAST  
TECHNICAL CONSULTANTS

Washington, D.C.

## FM BLANKETING CONTOUR CALCULATION

The blanketing contour of NEW FM is determined using the following formula as defined in 73.318 of the Commission's Rules:

$$D = 0.394 * \text{SQR}(P)$$

where D = distance to blanketing contour in km

P = ERP in kW of the station

The ERP of NEW FM is 6 kW yeilding a blanketing contour OF 0.97 km from the tower.

While it is the experience of this firm that very little, if any blanketing interference will be experienced by the grant of this proposal, NEW FM will follow the guidelines of 73.318 and good engineering practice to satisfy blanketing complaints.

BLANKETING CALCULATION

EXHIBIT #3A

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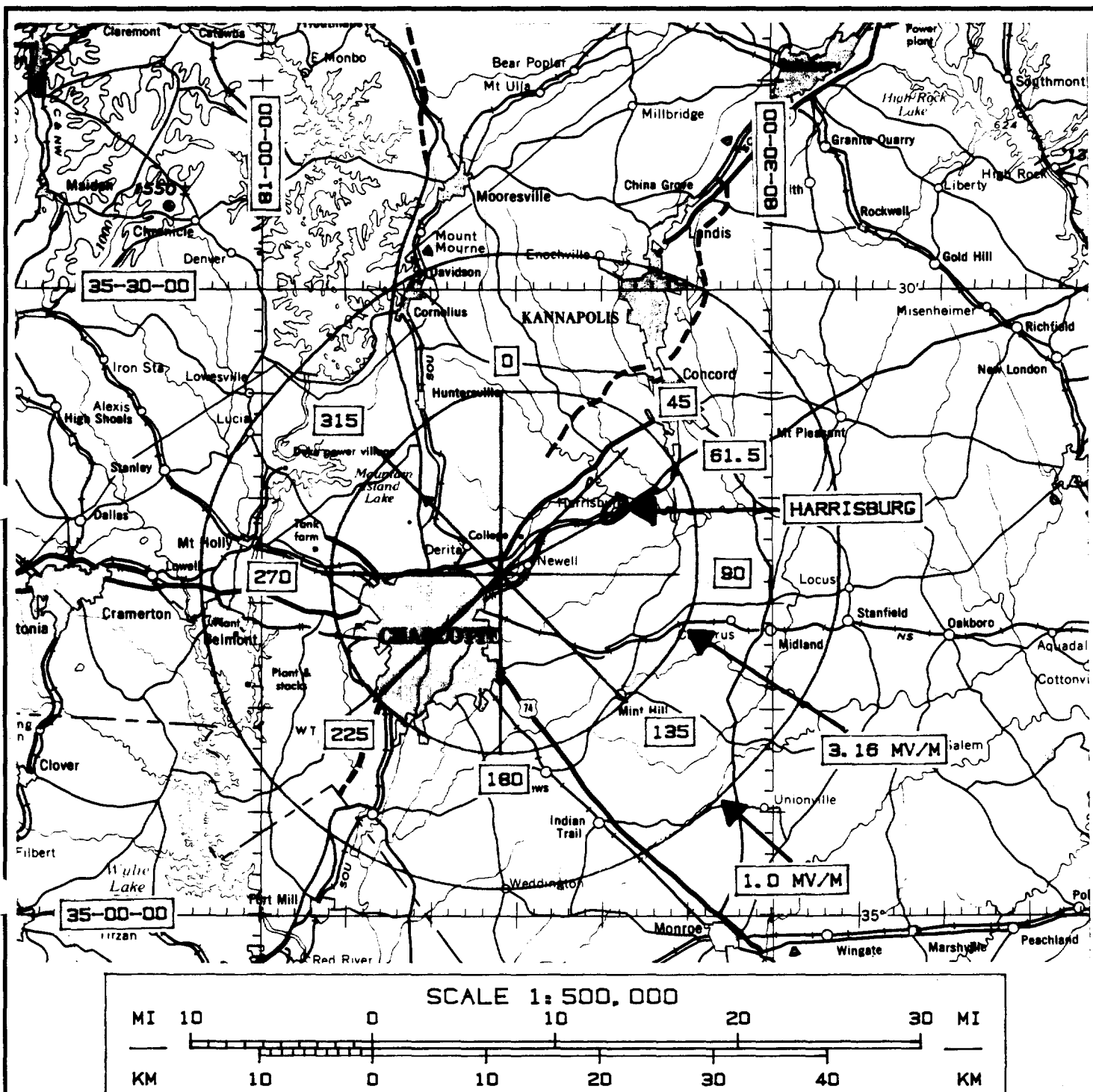
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#### SERVICE CONTOURS

MAP IS A PORTION OF THE 500,000 SCALE  
SECTIONAL AERONAUTICAL CHART 'CHARLOTTE'  
(BASE 1955)

PROPOSED TOWER COORDINATES:  
NORTH LATITUDE 35-16-20  
WEST LONGITUDE 80-45-54

#### EXHIBIT #5

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## RADIOFREQUENCY RADIATION STUDY AND STATEMENT

This Radiofrequency Radiation Study is being conducted to determine whether this proposal is in compliance with OST Bulletin Number 65, dated October 1985, regarding human exposure to radiofrequency radiation in the vicinity of broadcast towers. This study considers all nearby contributing stations and utilizes the appropriate formulas contained in the OST Bulletin.

The proposed antenna system will be mounted with it's center of radiation 87 meters ( 220.9 feet) above ground and operate with an effective radiated power of 6.00 KW in the horizontal plane and 6.00 kW in the vertical plane. At two meters, the height of an average person, at the base of the tower, this proposal will contribute, worst case 0.0939 mW, or 9.4 % of the allowable ANSI limit. Since this is below the 100% limit defined in the aforementioned bulletin, this proposal is believed to be in compliance with OST Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will post warning signs in the vicinity of the tower, warning of potential radiofrequency radiation hazards at the site. The applicant will also reduce power of the facility or discontinue operation to limit human exposure to levels less than 1.0 mW/cm<sup>2</sup> should anyone be required to climb the tower for maintenance or inspection.

RFR COMPLIANCE

EXHIBIT #6

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AFFIDAVIT AND QUALIFICATIONS OF CONSULTANT

State of Georgia     )  
St. Simons Island    )  
County of Glynn       )

ss:

CLIFTON G. MOOR being duly sworn, deposes and says that he is an officer of Bromo Communications, Inc. Bromo has been engaged by Intermart Broadcasting of North Carolina, Inc. to prepare the attached Technical Exhibit.

His qualifications are a matter of record before the Federal Communications Commission. He has been active in broadcast engineering since 1966.

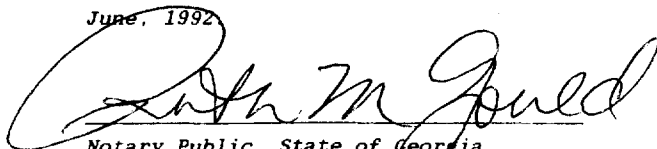
The attached report was either prepared by him or under his direction and all material and exhibits attached hereto are believed to be true and correct.

*This the 26th day of June, 1992.*



CLIFTON G. MOOR  
Affiant

Sworn to and subscribed before  
me this the 26th day of  
June, 1992



Notary Public, State of Georgia  
My Commission Expires: August 21, 1995

